

2005 NRI Photography Report

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Topics

- Review the 2005 NRI photography acquisition
- NRI_Register Software
- 2005 Landsat acquisitions

USDA Small Area Photography Contract

REQUEST FOR PROPOSAL

SOLICITATION NUMBER: USDA-NRCS-2-05

USDA SMALL AREA PHOTOGRAPHY

AERIAL PHOTOGRAPHY SERVICES



U.S. DEPARTMENT OF AGRICULTURE FARM SERVICE AGENCY AERIAL PHOTOGRAPHY FIELD OFFICE

NOTICE TO OFFEROR

Any proposal submitted for this RFP must be identified with the following information labeled on the outside of the mailing package:

SOL.NO: USDA-NRCS-2-05 DUE DATE: 23-FEB-2005, 4:30 PM RECEIVING OFFICE:CONTRACTING

Mail To: AERIAL PHOTOGRAPHY FIELD OFFICE CONTRACTING OFFICER 2222 WEST 2300 SOUTH SALT LAKE CITY UTAH 84119-2020

NOTICE TO PROSPECTIVE OFFERORS:

This RFP is for an Indefinite Delivery Indefinite Quantity (IDIQ), fixed-price contract. The contract covers the base year (2005) and four option years (2006 through 2009).

Contract awards shall be made prior to issuance of any task orders. Task orders are the method by which project item areas are awarded. Task order proposals shall be submitted as a separate document from the contract RFP proposals.

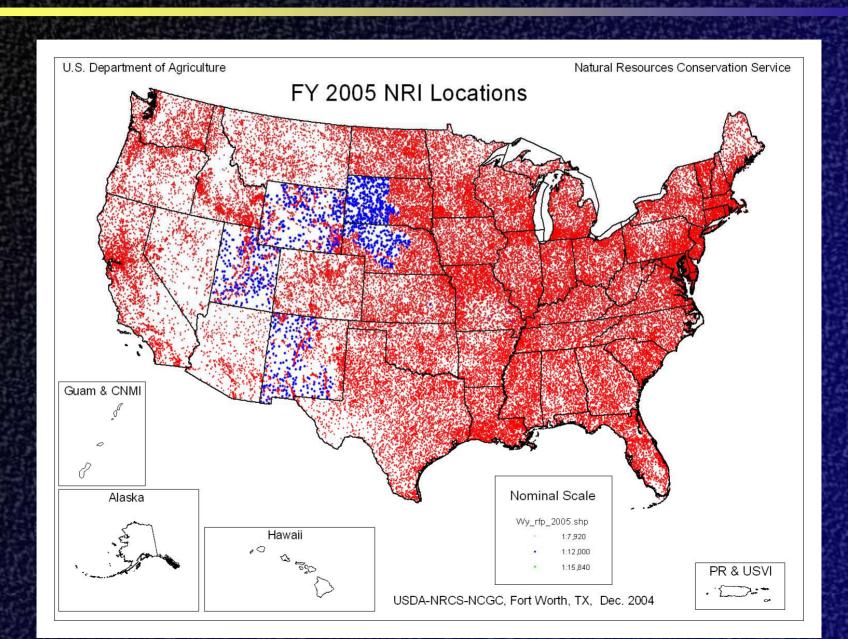
Any proposal submitted in response to this solicitation must be presented in two parts, a pricing proposal and a technical proposal. See Section L for proposal preparation instructions.

This procurement for nationwide small area aerial photography is designed to promote economy and efficiency of image acquisition by providing offerors flexibility in the selection of their area of interest and quantity of sites proposed.

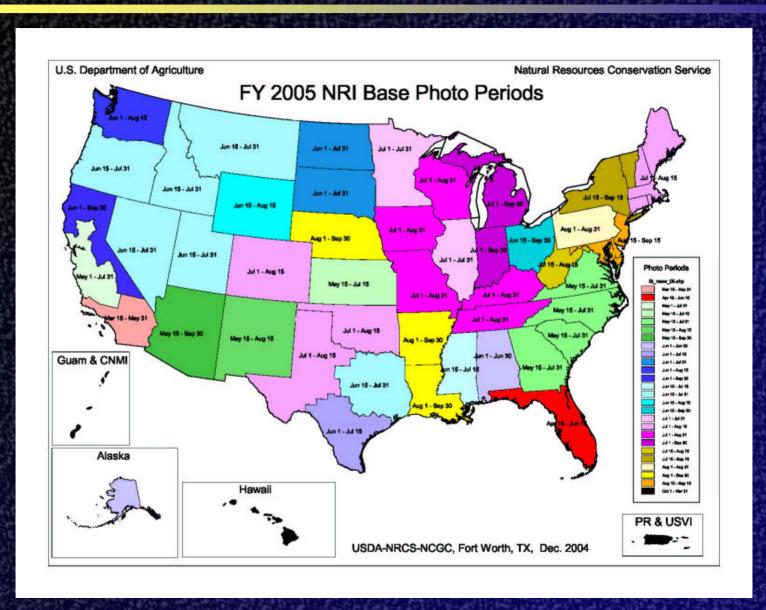
The complete text of any or all clauses referenced herein may be obtained by submitting a request, identifying this solication number, to the Contracting Officer, USDA, FSA, Aenal Photography Field Office, 2222 West 2305 South, Salt Lake City, Utah 84119-2020. Complete copies of the FAR in loss-leaf or CFR form may be purchased from the Supermitendent of Documents, U.S. Government Printing Office, Weshindon D.C. 20402.

- 5-yr IDIQ contract
 - 2005-2009
- 6 companies
- Options for
 - Flying services
 - Scanning
 - Orthorectification

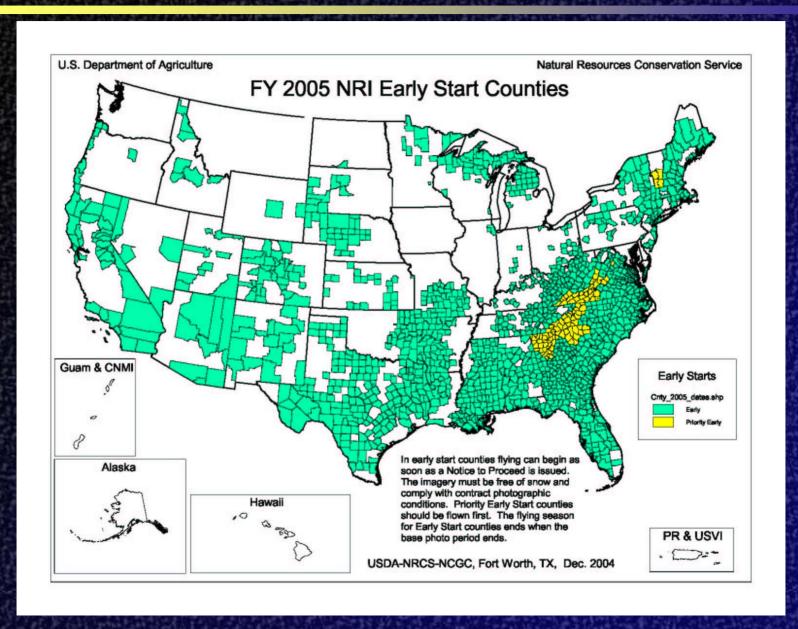
2005 NRI Locations (70,406)



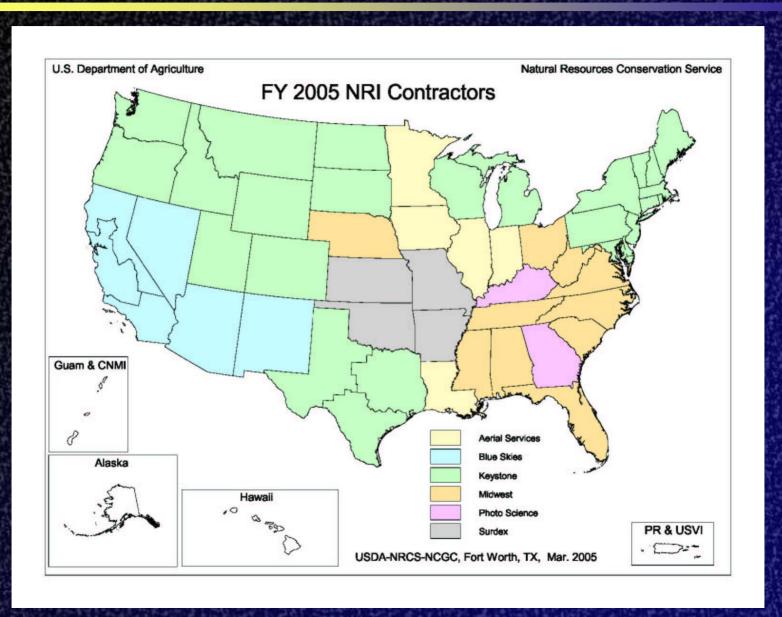
FY 2005 Base Photo Periods



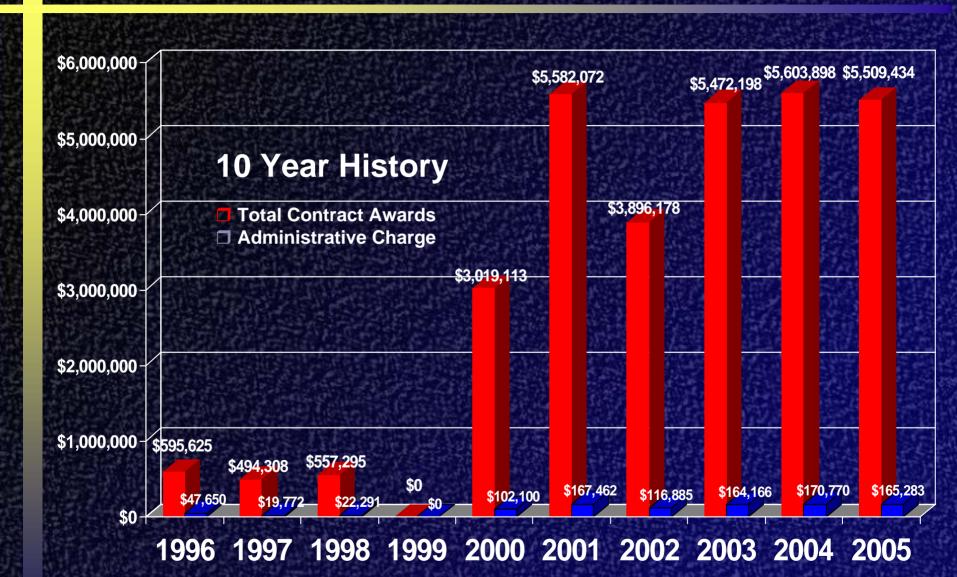
FY 2005 Early Start Counties



2005 NRI Contractors



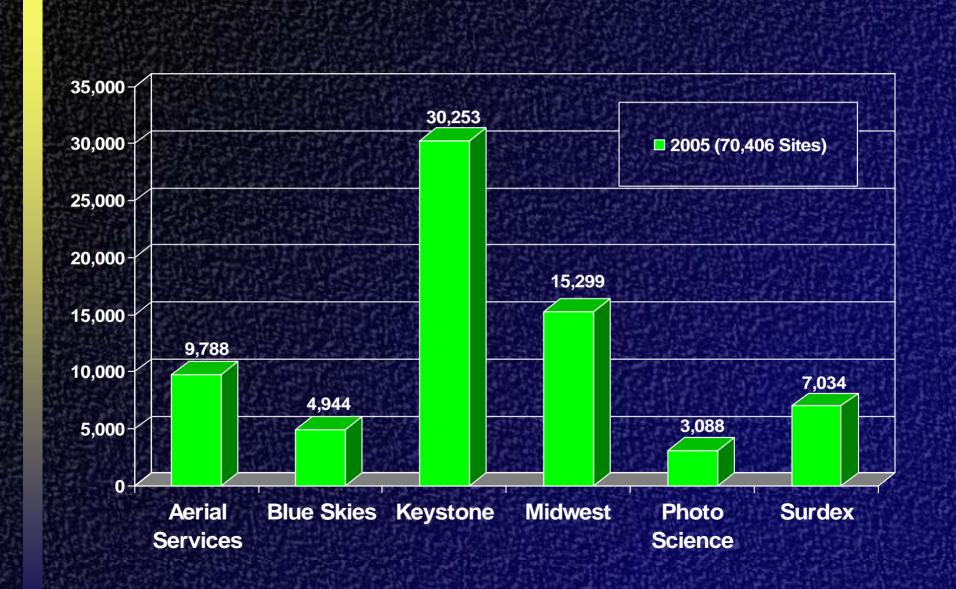
NRI Contract Awards



Photos Contracted & Prices 1998-2005

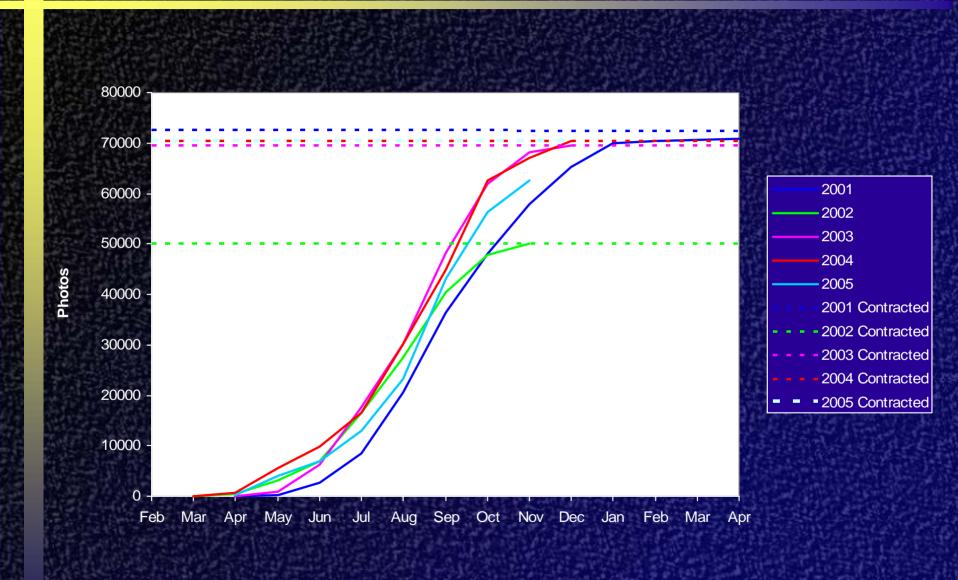


2005 NRI Contract Awards



NRI Photo Deliveries

2001, 2002, 2003, **2004**, 2005



Scanning Services

- May 17, 2005, Task Order Modification for scanning services
- 64,810 scans @ \$7.45 each
 - Total = \$483,181.11 (includes 1.5% APFO Admin. Charge)
- 600 dpi
- Delivered on firewire

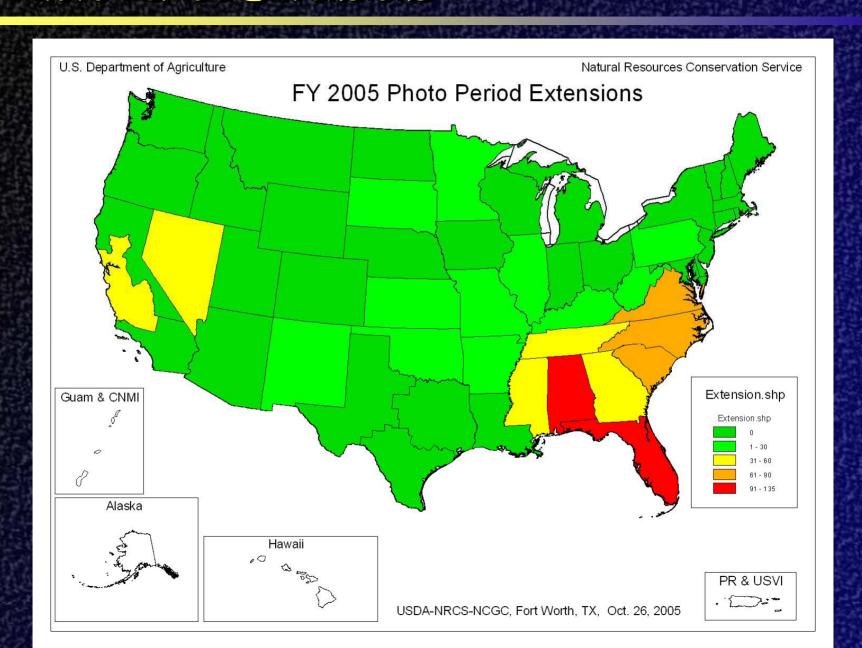
Other Issues

- Crab More rejections than in the past
- Restricted airspace
- Emulsion damage
- Blank scans
- Duplicate scans
- Permanent marker on sleeves
- Debris between film and sleeves
- Corrected labels (old one still partially visible)

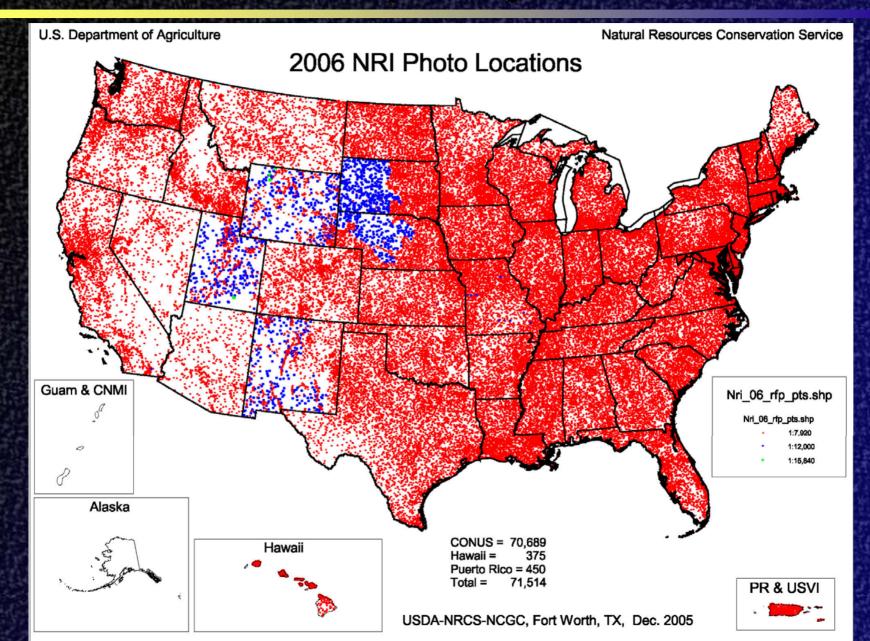
2006 NRI Imagery Planning Meeting - Items

- Standardize film sleeves
- North oriented scans
- Early photo periods now mandatory
- Prepare for higher costs because of fuel
- Most contractors indicated they can fly more, however, the SE US required numerous photo season extensions
- In 2006, we will attempt to balance "good" and "bad" weather states among the contractors
- Metadata matching scan to camera report
- "Best Available" DOQ and DEM to be used for orthorectification

Photo Period Extensions



2006 NRI Locations (71,514)

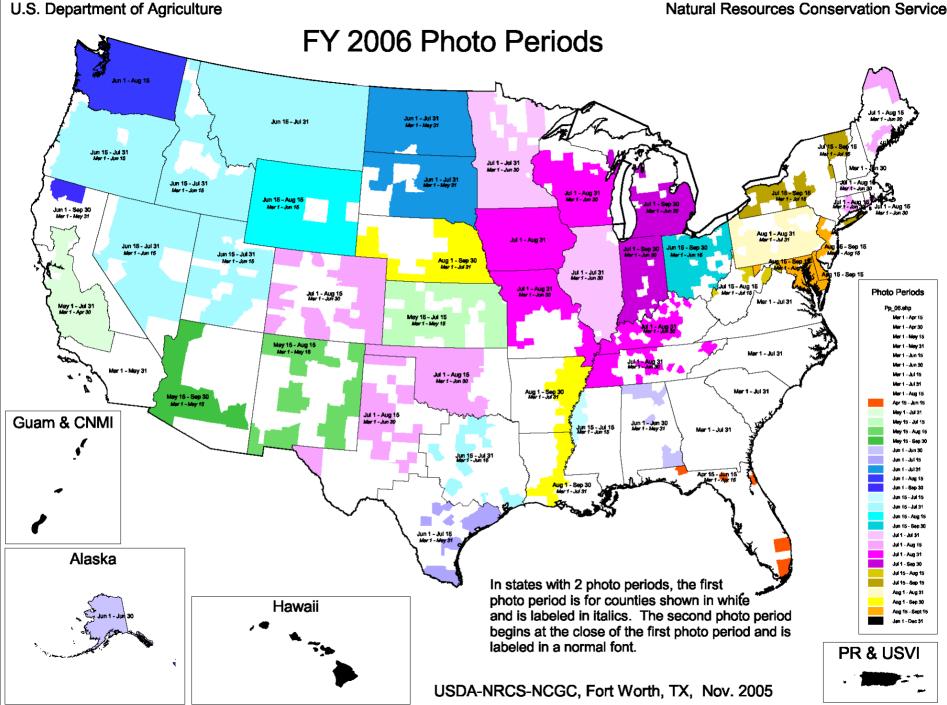


Alabama,1401 Arizona,658 Arkansas, 1406 California,2150 Caribbean,450 Colorado, 1667 Connecticut, 457 Delaware,297 Florida, 1953 Georgia, 1606 Hawaii,375 Idaho, 1624 Illinois,2211 Indiana, 1514 Iowa,1759 Kansas, 1960 Kentucky, 1451 Louisiana, 1952 Maine,700 Maryland, 1070

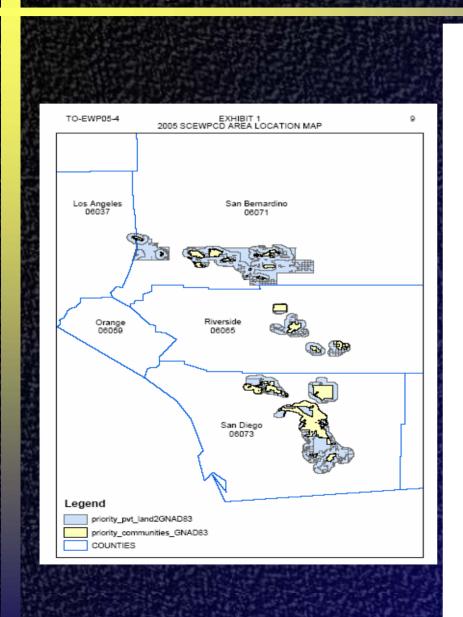
Massachusetts,668 Michigan, 2063 Minnesota,2352 Mississippi,1713 Missouri,2142 Montana, 1493 Nebraska, 1714 Nevada,740 New Hampshire,520 New Jersey,603 New Mexico, 1386 New York, 1701 North Carolina, 1567 North Dakota, 2014 Ohio,1657 Oklahoma, 1539 Oregon, 1334 Pennsylvania,1818 Rhode Island,291 South Carolina, 1245

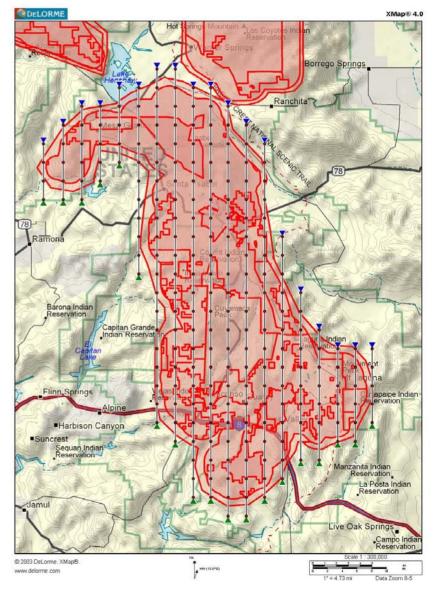
South Dakota,1847 Tennessee,1536 Texas,4803 Utah,829 Vermont,573 Virginia,1746 Washington,1364 West Virginia,826 Wisconsin,1850 Wyoming,919

TOTAL 71,514



S. CA Emergency Watershed Protection Priority Community Change Detection Project





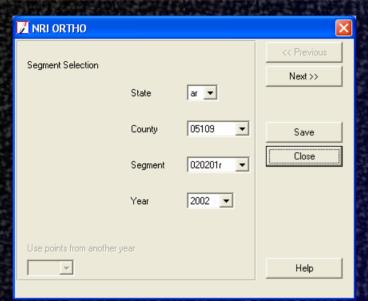
NRI_Register

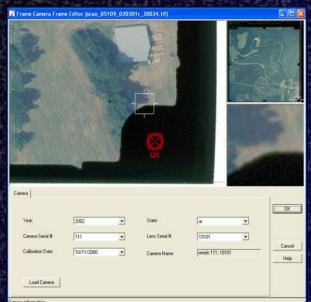
- Streamlined version of LPS
- Simple interface for less experienced users
- Many parameters will be set automatically
 - Projection
 - Name and location of input and output files
- Many options will be hidden
 - NRI is doing single frame orthorectification
- This approach should minimize confusion and reduce mistakes

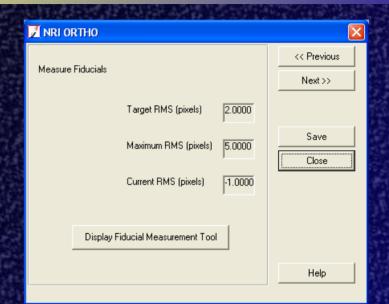
NRI Register Steps

- 1. Automatically create the LPS block file
 - Fixed format directories and files
- 2. Menu to select pre-built .cam files
- 3. Interface to measure fiducial marks
 - Auto driving and accuracy feedback
- 4. Interface to measure control points
 - Auto driving, auto populated (DOQ, DEM, GCP)
- 5. Output files named correctly
 - Creates ortho image, metadata, block file, and triangulation report

NRI_Register Workflow

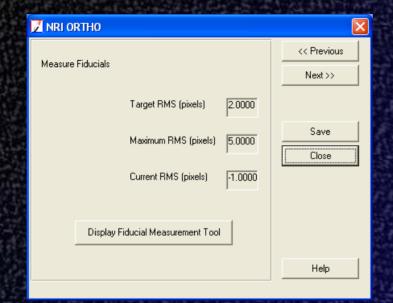


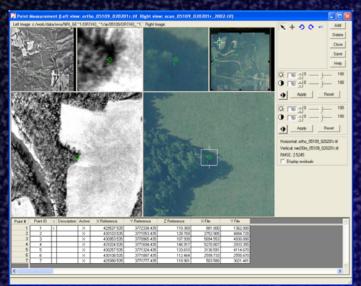


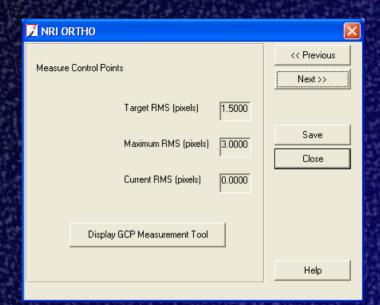


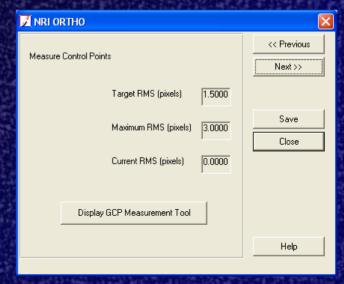


NRI_Register Workflow

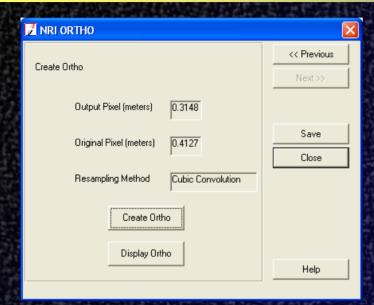




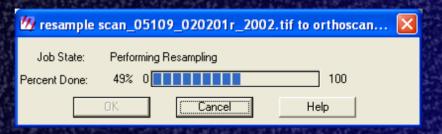


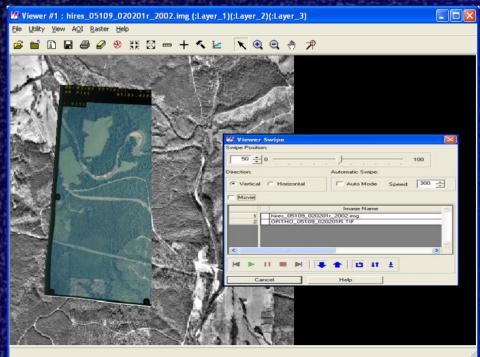


NRI_Register Workflow









NRCS Landsat Orders from FAS

